

H5000 Series (Brass)



Eaton's H5000 Series brass quick disconnect coupling is a pull to connect double shut-off coupling. It is a general purpose industrial quick disconnect coupling with the original Eaton's Gromelle™ profile. Mainly used in fluid transfer applications where stainless steel is not a requirement, it offers a good alternative for corrosion resistance.

Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Pressure performance
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminium)
- Standard body material: Nickel-plated brass
- Standard seal material: NBR, FKM, EPDM

European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey gases in Group 1 (hazardous).

Group 1 = Hazardous media / Group 2 = Other media

Physical Characteristics

Body Size	Nominal Flow Diameter*	Max. Operating Pressure**				Rated Flow***		Fluid Loss
		Gases in Group 2		Gases in Group 1		(lpm)	(gpm)	
(in)	(mm)	(bar)	(psi)	(bar)	(psi)			ml-cc.
1/8	3.8	300	4,350	300	4,350	6.1	1.61	0.4
1/4	5.7	230	3,335	230	3,335	11.6	3.06	1
3/8	7.6	175	2,535	175	2,535	16.7	4.41	2
1/2	10.3	150	2,175	150	2,175	25.5	6.74	2.5
3/4	14.2	125	1,810	125	1,810	55	14.53	5.5
1	16.5	100	1,450	100	1,450	87	22.98	9
1 1/4	20.5	70	1,015	70	1,015	140	36.98	23
1 1/2	25.8	50	725	50	725	208	54.95	36
2	34.7	20	290	40	580	357	94.3	70

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (PED 97/23 EC)

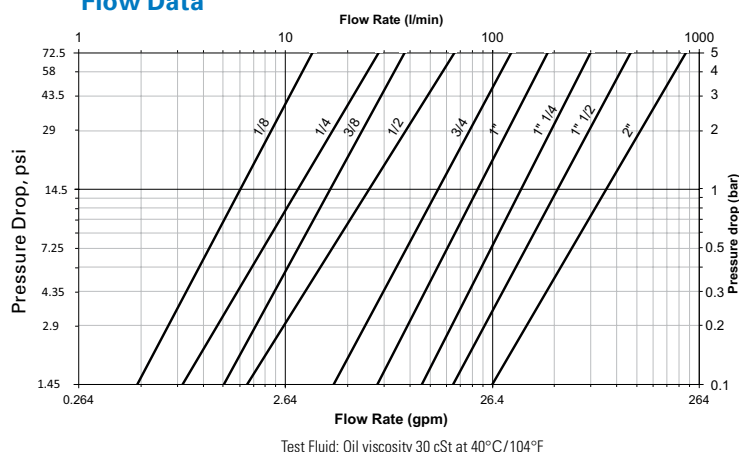
** For pulsating pressures when disconnected apply a multiplier of 0.5

*** Indicated values refer to a 1 bar/14.5 psi pressure drop.

Applications & Markets

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General hydraulic applications

Flow Data



Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Eaton recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Eaton technical support for further information on fluid compatibility.

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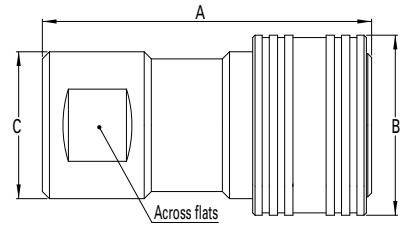


Figure 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions										Weight	
NBR	FKM	EPDM				(in)	(mm)	BSPP	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)
HL0500100	HL05001V0	HL05001E0	⅛	3.8	⅝-28	1	1.65	0.94	0.83	0.63	42	24	21	16	0.21	97	
HL0501100	HL05011V0	HL05011E0	¼	5.7	¼-19	1	1.97	1.10	0.94	0.75	50	28	24	19	0.30	134	
HL0502100	HL05021V0	HL05021E0	⅜	7.6	⅜-19	1	2.32	1.34	1.10	0.90	59	34	28	23	0.48	217	
HL0503100	HL05031V0	HL05031E0	½	10.3	½-14	1	2.71	1.50	1.22	1.06	69	38	31	27	0.55	249	
HL0504100	HL05041V0	HL05041E0	¾	14.2	¾-14	1	3.50	1.89	1.57	1.38	89	48	40	35	1.40	635	
HL0505100	HL05051V0	HL05051E0	1	16.5	1-11	1	3.89	2.05	1.77	1.61	99	52	45	41	1.75	792	
HL0506100	HL05061V0	HL05061E0	1¼	20.5	1¼-11	1	5.20	2.95	2.44	2.16	132	75	62	55	5.25	2,382	
HL0507100	HL05071V0	HL05071E0	1½	25.8	1½-11	1	5.90	3.35	2.95	2.56	150	85	75	65	8.49	3,850	
HL0509100	HL05091V0	HL05091E0	2	34.7	2-11	1	6.69	3.82	3.35	2.95	170	97	85	75	11.74	5,324	

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together.

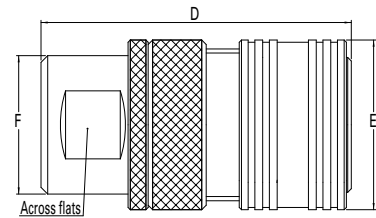


Figure 2

Sockets with Sleeve Lock (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions										Weight	
NBR	FKM	EPDM	(in)	(mm)	BSP	Fig.	D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams	
HL0500300	HL05003V0	HL05003E0	1/8	3.8	1/8-28	2	1.65	0.94	0.83	0.63	42	24	21	16	0.22	100	
HL0501300	HL05013V0	HL05013E0	1/4	5.7	1/4-19	2	1.97	1.10	0.94	0.75	50	28	24	19	0.33	148	
HL0502300	HL05023V0	HL05023E0	3/8	7.6	1/8-19	2	2.32	1.34	1.10	0.90	59	34	28	23	0.55	248	
HL0503300	HL05033V0	HL05033E0	1/2	10.3	1/2-14	2	2.71	1.50	1.22	1.06	69	38	31	27	0.75	341	
HL0504300	HL05043V0	HL05043E0	3/4	14.2	3/4-14	2	3.50	1.89	1.57	1.38	89	48	40	35	1.61	732	
HL0505300	HL05053V0	HL05053E0	1	16.5	1-11	2	3.89	2.05	1.77	1.61	99	52	45	41	1.97	894	
HL0506300	HL05063V0	HL05063E0	1 1/4	20.5	1 1/4-11	2	5.20	2.95	2.44	2.16	132	75	62	55	5.41	2,453	
HL0507300	HL05073V0	HL05073E0	1 1/2	25.8	1 1/2-11	2	5.90	3.35	2.95	2.56	150	85	75	65	8.69	3,944	
HL0509300	HL05093V0	HL05093E0	2	34.7	2-11	2	6.69	3.82	3.35	2.95	170	97	85	75	13.72	6,224	

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions D (Fig. 2) and J (Fig. 3) together.

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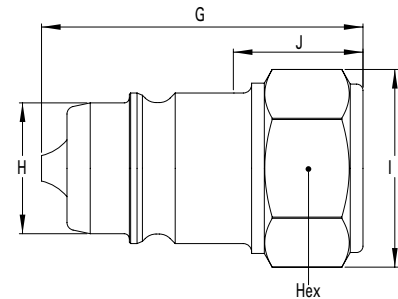


Figure 3

Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions											Weight	
NBR	FKM	EPDM	(in)	(mm)	BSPP	Fig.	G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HL0500200	HL05002V0	HL05002E0	⅛	3.8	⅛-28	3	1.1	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.06	26
HL0501200	HL05012V0	HL05012E0	¼	5.7	¼-19	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.09	41
HL0502200	HL05022V0	HL05022E0	⅜	7.6	⅜-19	3	1.65	0.75	1.04	0.70	0.90	42	19	26.4	18	23	0.17	77
HL0503200	HL05032V0	HL05032E0	½	10.3	½-14	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.22	101
HL0504200	HL05042V0	HL05042E0	¾	14.2	¾-14	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.53	239
HL0505200	HL05052V0	HL05052E0	1	16.5	1-11	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.70	316
HL0506200	HL05062V0	HL05062E0	1¼	20.5	1¼-11	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	2.18	990
HL0507200	HL05072V0	HL05072E0	1½	25.8	1½-11	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.64	1650
HL0509200	HL05092V0	HL05092E0	2	34.7	2-11	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.46	2024

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and J (Fig. 3) together for standard version; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version

Dust Plugs and Dust Caps

Body Size	Socket Dust Plug Part Number	Plug Dust Cap Part Number
(in)	Anodized Aluminium	Anodized Aluminium
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200

Socket Dust Plug



Plug Dust Cap